

ABSTRACT OF THE DISCLOSURE

An expandable reamer includes, in one exemplary embodiment thereof, a cannulated shaft and a plurality of straight cutting blades having deformable points. The blades are hingably outwardly rotatable at the deformation points between a contracted position and an expanded position. In the contracted position, the blades are substantially parallel to the longitudinal axis of the cannulated shaft and, in the expanded position, the blades have at least a portion oriented radially outward from the longitudinal axis, thereby forming a larger diameter cutting surface in the expanded position and in the contracted position. The blades are formed from a portion of the cannulated shaft by, e.g. milling longitudinally extending slots through the wall of the cannulated shaft, the slots serving as flutes dividing the cutting edge and trailing edge of each adjacent blade. Each blade may also include more than one segment arranged along its length, the segments coupled by deformation points. The expandable reamer may be used for cutting a cavity in a bone or other structure that is larger than the diameter of the entry point into the bone and greater than the diameter of the contracted reamer.